LED MOVING HEAD LIGHT

USER MANUAL

CE RoHS

MODE NO.	TH-103
NAME	LED MOVING HEAD LIGHT （4IN1 10W×36）with zoom

CONTENT

1. GENEARAL……..1

2. FEATURE……...2

3. OPERATIONS……..4

4. CHANNEL CHART……7

5. SAFETY INSTRUCTIONS……..10

6. MAINTANCE……..12

GENEARAL

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please read this user manual carefully before installing the device.

This product is designed for indoor use. It is suitable for indoor, building, disco, stage and etc. as large or small wash or effect lighting. This product can be operated as a single unit or in multiple units for large applications. Direct input of DMX512 signal to unit to allow it be controlled by any DMX512 controller. Powerful internal programs and friendly & convenient operation interface allow customers to program freely to any different lighting project requirements for installation or shows.

IMPORTANT

BEFORE OPERATION PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE REAR PANEL OF THIS UNIT IS THE SAME AS THE SUPPLIED MAINS POWER IN YOUR AREA.

This led moving head light has gotten the nice sculpt, efficient, save electricity and durable。

This product complies with the following standards:

EN61000-3-2:2006+A2:2009

EN60598-1:2008+A11:2009

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. If the item has to be sent back to the factory to repair or change, It is import that the fixture be returned in the original factory box and packing.

FEATURE

• DMX-512 LED signal

• 0~100% linear dimming; Special function

• Built-in program for a variety of lighting effects

• Zoom: from 15-60 degree

• Run simultaneously from sound control without controllers;

• Optical system: Combination of high-precision quartz lens

• Optical loss is reduced to a minimum;Protection: all intelligent

• Temperature thermal protection and high-interference with electronic circuits

• 100000 hours LED life,Energy-Saving and environment-protective

• Pan: 540°,8/16bit, adjustable

• Tilt: 270°, 8/16bit, adjustable

•XLR mate socket data output ,locking 3-pin

•XLR temale socket data pin configuration :pin 1 shield pin2(-),pin3(+)

•The housing is made of streamline fashionable PC engineering plastic after once casting

•Infinite RGB color mixed system

•The light beam angle is adjustable ranging 15° - 45°

•High speed electronic strobe reaches 1-18 times/second

•The digital display on the control panel can be reversed for 180° , applicable for horizontal or vertical use of moving head

Technical parameter

•Input Voltage: AC90-2600V 50-60Hz

•LED Quantities: 36PCS 10W Quad LEDs

•Control Signal:DMX512, master-slave and sound activated or auto operation

•Control Channel: 15 DMX Channels

•Power Consumption: 460W

•Packing Dimensions: 405x290x520mm

•N. W: 10kg

•G. W:12kg

OPERATIONS

1. In the main window ,in turn press “ESC” button，select DMX mode、auto mode or sound mode，

- In DMX mode： press “UP” “DOWN”to select DMX address；
- In Auto mode：press “UP”“DOWN”to select the device to be a Master or Slave
- In sound mode：press“UP”“DOWN”to select the device to be a Master or Slave

1.1 setting up DMX address

In the main window, press“ENTER” into main menu，press“UP” or“DWON”selection“1.DMX Address”，and then press“ENTER”into parameter set，then press“UP”or“DOWN”to can be set DMX address parameter，then press“ENTER” to save ，press“ESC”to surrender.

1.2 setting up device working mode

The device can be working the following three modes of either one: DMX mode, auto mode or sound mode；

In the main window, press“ENTER”into main menu，press“UP”or“DWON” to select “2.Work Mode”， then press“ENTER” into parameter saving，and then press“UP”or“DOWN”to select working mode，then press“ENTER”can be save setting，press“ESC”to surrender setting.

1.3 setting up Master/Salve mode

When the unit is AUTO or SOUND mode，can be setting unit as Master/Salve， as Master， the unit in the Auto at the same tine will be sent to the other asynchronous data. In Slave， the unit is not sent the data to others，and do not affect the same line of the normal work of the other light，setting as below：

In the main window， press“ENTER” into main menu，press“UP”or“DWON” to select“3.Master”，then press“ENTER”into parameter， then press“UP”or“DOWN” to select Mater/Slave mode，after setting，press“ENTER”to salve setting，press“ESC”to surrender。

1.4 setting up PAN run direction

In the main window，press“ENTER”into main menu，press“UP”or“DWON”to select“4.Pan Invert”，press“ENTER”into parameter setting，and then press“UP”or“DOWN”to select PAN forward rotating or inversion，after setting，press“ENTER”to save，press“ESC”to surrender.

1.5 setting up TILT run direction

In the main window，press“ENTER”into main menu，press“UP”or“DWON”to select“5.Tilt Invert”，press“ENTER”into parameter setting，and then“UP”or“DOWN”to select TILT forward rotating or inversion，after setting，press“ENTER” to save，press“ESC”to surrender.

1.6 Reset or parameter

◆ Reset system

In the main window，press“ENTER”into main menu，press“UP”or“DWON”to select“7.Reset System”，press“ENTER”into parameter setting，then press“UP”or“DOWN”to select“[DEVICE]”，press“ENTER” can immediately reset the device，press“ESC”to surrender.

◆ Reset parameter

In the main window，press“ENTER”into main menu，press“UP”or“DWON”to select“7.Restem System”，press“ENTER”into parameter setting，press“UP”or“DOWN”to select“[PARAM]”，press“ENTER”the unit can be reset to factory parameter value，press“ESC”to surrender.

1.7 Senior parameter setting

Senior parameter is not commonly used parameters，can set up as below：

◆ Setting LED mixing color proportion（color temperature）

In the main window，press“ENTER”into main menu，pree“UP”or“DWON”to select“6.Advance Cfg”，then press“ENTER”into parameter setting，press“UP”or“DOWN”to select“COL MIX”，press“ENTER”into color mix setting，press“UP”to select color（R、G、B or W），press“DOWN”to adjust the brightness of corresponding color proportion ，after setting，press“ENTER” to save set，press“ESC”to surrender.

◆ Setting up cool fan working mode

In the main window，press“ENTER”into main menu，press“UP”or“DWON”to select“6. Advance Cfg”，then press“ENTER”into parameter setting，and then press“UP”or“DOWN”to select“FAN CTL”，press“ENTER”into setting，press“UP”or“DOWN”to select“[ALWAYS]” to star the fan always or as“[AUTO]”according to the unit on to start the fan,after setting，press“ENTER”to save，press“ESC”to surrender.

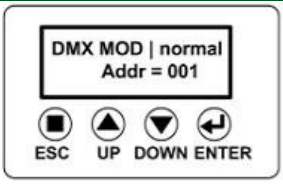
◆ Setting PAN rotation rate

In the main window, press“ENTER”into main menu，press“UP”or “DWON”to select “6. Advance Cfg”，then press“ENTER”into parameter setting，and then press “UP”or "DOWN" to select“X ANGLE”，press“ENTER”to set,and then press“UP”or “DOWN”to select “[540]” or“[630]”，after setting，press“ENTER”to save setting，press “ESC”to surrender.

◆ Setting PAN the initial offset position

In the main window, press “ENTER”into main menu, press “UP”or “DWON”to select“6. Advance Cfg”，then press“ENTER”into parameter set，and then press “UP”or “DOWN” to select “Pan Offset”，press “ENTER”to set，and then press “UP”or “DOWN”to set PAN initial offset in after reset, after set, press“ENTER”to save set，press“ESC”to surrender.

DISPLAY DIAGRAMS

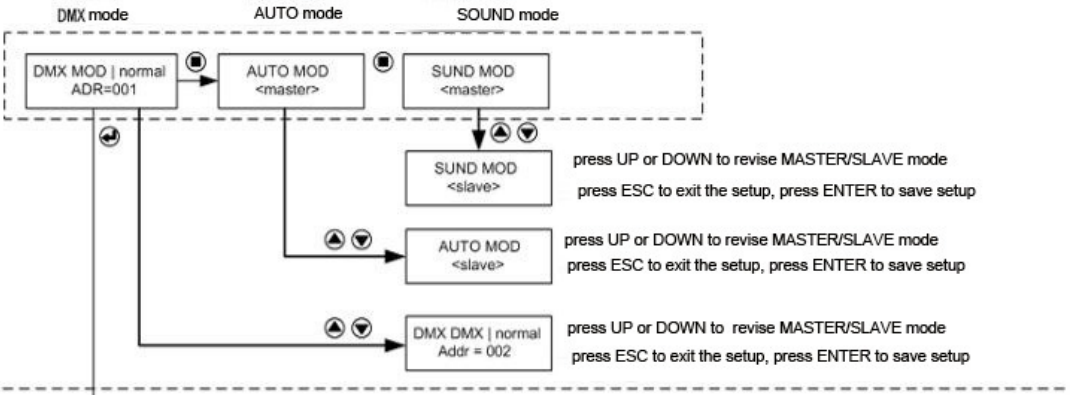


ESC a: In the main window, select working mode
b: Under the regular menu, return to the previous menu, to surrender parameter set.

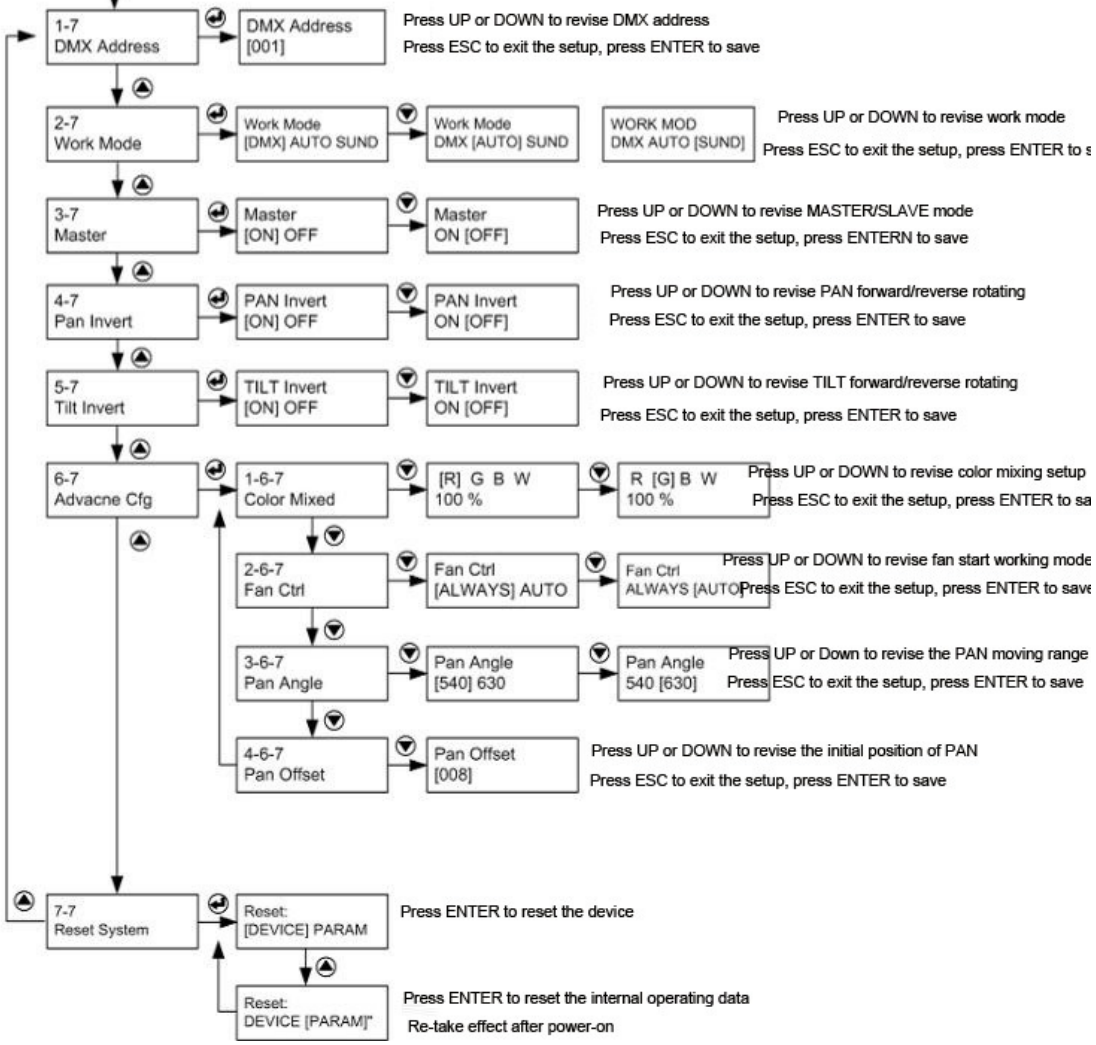
UP a: Select the menu
DOWN b: set up parameter value

ENTER a: Enter the next menu
b: Ruturn the previous menu and save the data

SHORTCUT MENU


DMX mode
AUTO mode
SOUND mode
DMX MOD | normal
ADR=001
AUTO MOD
<master>
SUND MOD
<master>
SUND MOD
<slave>
press UP or DOWN to revise MASTER/SLAVE mode
press ESC to exit the setup, press ENTER to save setup
AUTO MOD
<slave>
press UP or DOWN to revise MASTER/SLAVE mode
press ESC to exit the setup, press ENTER to save setup
DMX DMX | normal
Addr = 002
press UP or DOWN to revise MASTER/SLAVE mode
press ESC to exit the setup, press ENTER to save setup

Regular menu



DMX CHANNEL CHART

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Channel/Function	VALUS	FUNCTIONS
CH1：Horizontal scanner	000-255	PAN from 0-54 or 630 degree scanner
CH2：Vertical scanner	000-255	TILT from 0-280°scanner
CH3：Zoom	000-255	Zoom scanner
CH4：Strobe/Reset	000-009	no strobe (light on)
	010-059	Strobe from slow to fast
	060-064	No strobe (light on)
	065-114	Random strobe from slow to fast
	115-119	No strobe(light on)
	120-169	From slow to fast strobe bright gradually
	170-174	No strobe (light on)
	175-224	From slow to fast strobe dark gradually
	225-234	No strobe(light on)
	235-244	No strobe, light off, after 3sec. Reset unit
	245-255	No strobe (light on)
CH5：Macro	000-002	R
	003-004	RW
	005-007	RG
	008-009	RGW
	010-012	G
	013-014	GW
	015-017	GB
	018-019	GBW
	020-022	B
	023-024	BW
	025-027	RB
	028-029	RBW
	030-039	W
	040-049	RGBW
	050-083	R on, G on gradually, B off
	084-117	R off gradually、G on、B off
	118-151	R off、G on、B on gradually
	152-185	R off、G off gradually、B on
	186-218	R on gradually, G off, B on
	219-252	R on, G off, B off gradually
	253-255	RGBW
CH6：total dimmer	000-255	0%-100% dimmer
CH7：Red	000-256	0%-100% dimmer

CH8：Green	000-257	0%-100% dimmer
CH9：Blue	000-258	0%-100%dimmer
CH10: White	000-259	0%-100% dimmer
CH11：Color changing automatic	000-005	RGBW，color decided by CH5
	006-127	Color gradual changing from slow to fast
	128-255	Color jumping from slow to fast
CH12：Horizontal fine	000-255	
CH13：Vertical fine	000-255	
CH14: scanner speed	000-255	from fast to slow scanner
CH15：Run mode	000-049	DMX mode
	050-099	Pan auto
	100-149	Tilt auto
	150-199	Pan/Tilt auto
	200-255	Sound

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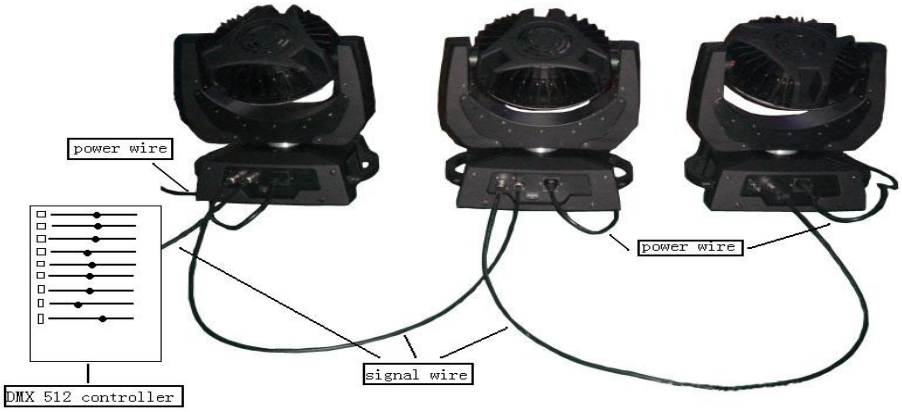
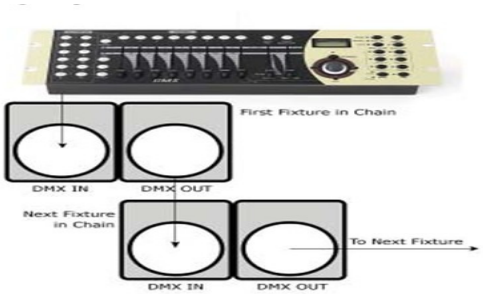
Connections :



DMX-512 CONTROL CONNECTIONS

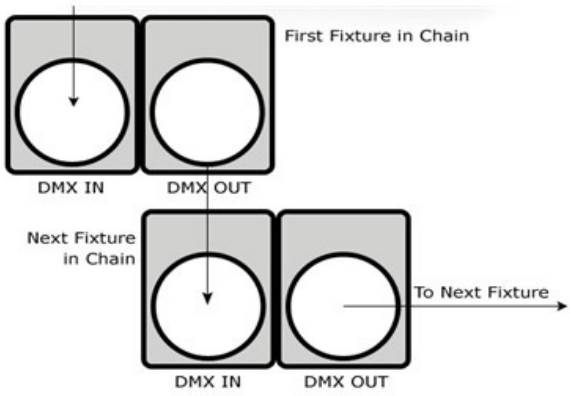
1) Connect the male connector of the DMX cable to the female connector(output) on the controller
2) Connect the female connector of the DMX cable to the first fixture's male connector(input). *Note:* It doesn't matter which fixture address is the first one connected. We recommend connecting the fixtures in terms of their proximity to the controller, rather than connecting the lowest fixture number first, and so on.
3) Connect other fixtures in the chain from output to input as above. Place a DMX terminator on the output



to input of the final fixture to ensure best communication

FIXTURE LINKING (Master/Slave mode)

1) Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.
2) Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.



A quick note: Often, the setup for Master/Slave and standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel, the fixtures that follow may also require a slave setting.

SAFTY INSTRUCTIONS

WARNING!
Read the safety precautions in this section before installing, powering, operating or servicing this product.

The following symbols are used to identify important safety information on the product and in this manual:

DANGER! Safety hazard. Risk of severe injury or death.

Warning! LED light emission. Risk of eye injury.

Warning! Refer to manual before installing, powering or servicing.

Warning! Hazardous voltage. Risk of lethal or severe electric shock.

Warning! Fire hazard.

Warning! Class 2M LED product. Do not look into the beam from a distance of less than 40 cm (16 inches). Do not stare into the beam for extended periods at a short distance. Do not view the beam directly with optical instruments.

This product is for professional use only. It is not for household use.

This product presents risks of severe injury or death due to fire hazards, electric shock and falls.

PROTECTION FROM ELECTRIC SHOCK

- Shut down power to the entire installation at the building's main power distribution board and lock out power (by removing the fuse for example) before carrying out any installation or maintenance work.
- Disconnect the fixture from AC power before removing or installing any cover or part and when not in use.
- Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Connect this fixture to AC power either using the supplied power cable or via 3-conductor cable that is rated minimum 20 amp, hard usage. Suitable cable types include ST, SJT, STW, SEO, SEOW and STO.
- The voltage and frequency at the power outlet are the same as the voltage and frequency applied to the power inlet. Only connect devices to the power outlet that accept this voltage and frequency.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Do not use the fixture if the power cable or power plug are in any way damaged, defective or wet, or if they show signs of overheating.
- Do not expose the fixture to rain or moisture.
- Refer any service operation not described in this manual to a qualified technician.

- When suspending the fixture, ensure that the structure and all hardware used can hold at least 10 times the weight of all devices suspended from them.
- Use a secondary attachment (such as a safety cable) to secure each fixture. Secondary attachments must be able to hold at least 10 times the weight of all devices suspended from them and must be installed as described in this manual.
- Check that all external covers and rigging hardware are securely fastened.
- Block access below the work area and work from a stable platform whenever installing, servicing or moving the fixture.

- The LED emission presents a hazard to eyesight at a distance of 4 - 40 cm (1.6 - 16 inches) when the eye is exposed to the beam for longer than 0.25 seconds.
- Do not look at LEDs from a distance of less than 40 cm (1 ft. 4 in.) without suitable protective eyewear.
- Do not look at LEDs with magnifiers or similar optical instruments that may concentrate the light output.

ATTENTIONS:

1)This product must be installed by a qualified professional

2) All operation and maintenance must be carried out in accordance with this user manual.

3)Always disconnect the power before attempting to open the equipment housing or carrying out any maintenance.

4) Avoid looking directly into the light source (especially those who suffer from epileptic fits).

5)DO NOT connect power cable of other electric products with this unit.

6) DO NOT connect DMX512 Signal cable of other electric products with this unit.

7) Make sure power socket is connected with earth cable well when connect to AC110-240V power.

8) The fixture can be mounted in an upright or sitting position using the supporting brackets, the lamp angle can be adjusted discretionarily using the two adjustment knobs located on the side of the fixture.

9)When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.

10)Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary of attachment such as safety cables.

MAINTENANCE

1)In order to make sure the LED moving head light operate steadily, it should keep clean. Suggest clean lighting body every 15 days. Lens and dichroic filter should be cleaned at stated time to assure the best light effect.

2)Don’t dismounting or refit led moving head light.

3)Don’t touch water and other kind of liquid and metal substance (IP20).

4)Don’t install in a high wettest condition.

5)Don’t illuminate on tinderbox, led moving head light must keep 5M away from tinderbox.

6)Led moving head light should keep 0.5M away the surface of adjacent object.

7)Don’t look beam in the face, or it may injure your eyes.